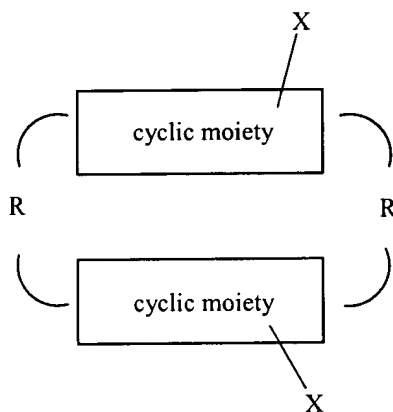


Amendment to the Claims:

1. (Previously presented) A method of forming a precursor for use in manufacturing integrated circuits comprising the steps of:

providing a quantity of an antireflective compound and a substrate having a surface onto which said compound is to be applied, said antireflective compound having the formula



wherein:

each R is individually selected from the group consisting of alkyl groups; and

each X is individually selected from the group consisting of hydrogen, the halogens,

nitro groups, amino groups, acetamido groups, substituted and unsubstituted

cyclic and heterocyclic groups, and COR¹, where R¹ is selected from the

group consisting of hydrogen, substituted and unsubstituted phenyl groups,

substituted and unsubstituted alkyl groups, cinnamoyl, naphthoyl, acryloyl,

methacryloyl, furoyl, and thiophenecarbonyl groups; and

subjecting said antireflective compound to a chemical vapor deposition process so as to deposit said antireflective compound in a layer on said substrate surface, said antireflective compound layer deposited on said substrate surface absorbing at least about 90% of light at a wavelength of from about 150-500 nm.

2. (Original) The method of claim 1, further including the step of applying a photoresist layer to said antireflective compound layer.

3. (Original) The method of claim 1, wherein at least one of said cyclic moieties is heterocyclic or aromatic.

4. (Original) The method of claim 3, wherein said cyclic moieties are selected from the group consisting of benzene, naphthalene, anthracene, phenanthrene, pyrene, pyridine, pyridazine, pyrimidine, pyrazine, thiazole, isothiazole, oxazole, isooxazole, thiophene, furan, and pyrrole.

5. (Original) The method of claim 1, wherein the strain energy of said antireflective compound is at least about 10 kcal/mol.

6. (Original) The method of claim 1, wherein said substrate comprises a silicon wafer.

7. (Original) The method of claim 1, wherein said chemical vapor deposition process comprises the steps of:

- (a) subjecting said antireflective compound to a sufficient temperature and pressure to form said antireflective compound into a vapor;
- (b) cleaving the resulting vaporized compound; and
- (c) depositing said cleaved compound onto said substrate surface.

8. (Original) The method of claim 7, wherein said subjecting step (a) is carried out at a temperature of from about 35-160°C and a pressure of from about 2-50 mTorr.

9. (Original) The method of claim 7, wherein said cleaving step (b) comprises breaking a bond between two of the atoms of each R.

10. (Original) The method of claim 7, wherein said cleaving step (b) comprises pyrolyzing said antireflective compound.

11. (Original) The method of claim 10, wherein said pyrolyzing step comprises heating said antireflective compound to a temperature of from about 580-700°C.

12. (Original) The method of claim 7, wherein said causing step (c) comprises subjecting said cleaved compound to a temperature of from about 20-25°C.

13. (Previously presented) The method of claim 2, wherein said antireflective compound layer has a thickness after said depositing step, and said thickness will change by less than about 10% in solvents utilized in said photoresist layer.

14. (Previously presented) The method of claim 1, further including the steps of:
exposing at least a portion of said photoresist layer to activating radiation;
developing said exposed photoresist layer; and
subjecting said exposed photoresist layer to an etching process.

15. (Canceled)

16. (Original) The method of claim 1, wherein the antireflective compound layer deposited on said substrate surface will be subjected to light of a predetermined wavelength and has a k value of at least about 0.1 at said predetermined wavelength.

17. (Original) The method of claim 1, wherein the antireflective compound layer deposited on said substrate surface has a percent conformality of at least about 85%.

18. (Original) The method of claim 1, wherein said substrate comprises raised features and structure defining contact or via holes, and said subjecting step comprises depositing a quantity of said antireflective compound in a layer on said features and said hole-defining structure.

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19-83. (Canceled)